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25X1A

Attachment A

Key to Plan of Tank and Tractor Factory at Rubtsovsk
(with amplifications)

1. This is a four-story building with military guards. There is a strict pass control here.
2. This is a machine shop and is divided into two parts. In the southern section there are three electric smelting furnaces 6 x 3 meters and 2 meters high. There is also a large electric press, 10 meters high, and five electric shears for cutting steel plates up to 3 cm thick. The shearing table is 5 x 2 meters. There are also several smaller shears 2 x 3 meters, boring machines, milling machines, and medium-sized punching machines. Engine parts and parts for tank and tractor bodies were produced in this portion of the machine shop. It is not known exactly what went on in the northern section of the shop, but from the noise it appeared that large, heavy machines were at work there. Entrance to this section was strictly forbidden.
3. This is a store for defective machines. No machines were ever seen being removed from this store.
4. This is a machine shop. Special workers were employed in this shop. The average age of these men was 25; they wore better clothes than the other workers, and all had Party badges. Considerable activity went on here; all cars leaving this shop were carefully covered with tarpaulins. Entrance was strictly forbidden.
5. This is an assembly shop. Practically every part made in the factory was brought to this shop. There were railway lines running into it, and loaded rail cars covered with tarpaulins left here at night. Entrance was strictly forbidden.
6. This is a repair shop where tools and machines were repaired.
7. This is a foundry. This foundry was equipped similarly to that designated by No. 13 on the plan. It had three electric smelting furnaces (base 1 m high, superstructure 5 x 5 m and 3 m high, covered with firebrick), and one large and one medium conveyor belt. Engine blocks in various sizes were moulded here. The biggest were 1.30 m high x 0.7 m broad x 2.50 m long. Armor plates were also moulded here, 50 x 100 cm, 50 x 200 cm, and 100 x 300 cm. All mouldings went from this foundry to be tempered.
8. This is a sand store which contained yellow sand for casting moulds. This sand was brought to the works by rail.
9. This is a forge. Entry was forbidden. Axles were forged here. Several heavy forges and hammers and also electric furnaces could be seen through the windows. Steel poles 20 meters long and 5 - 20 cm diameter were seen being taken from this shop. One smelting furnace in the forge was 5 meters long, 3 meters broad, and 2.5 - 3 meters high. There was also seen hanging on a wall of this forge a large board with a picture of a T-34 tank attached to it. The noise of a metal saw could also be heard coming from this forge.
10. This is a store. Barrels (200 liters) were stored here, containing oil, dextrin, and a mixture for moulding sand in the foundry.
11. This is a boiler house. This has four stories and is a massive building with a cement foundation. The outer walls were about 1 m thick. On the ground floor were three large boilers, about 3 meters in diameter and 4-5 meters long. It is presumed that these were heated by oil, as there was no coal but oil tanks nearby. The overhead power line from the transformer house led into the boiler house on the north side. Subterranean pipe lines went from the boiler house to all shops;

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there were also power lines on steel masts and overhead cables on iron supports. The diameter of these cables with sheath was 10 - 15 cm, and they were 5 meters off the ground. The subterranean pipe lines were 30 cm in diameter and were laid at a depth of 4 - 6 meters. They were made of cast iron.

12. This is the grinding and tempering shop. All products of the foundry were treated here by sand-blasting. There were also several milling and grinding machines in this shop. The shop contained four oil-burning tempering furnaces 20 x 3 m and 3 m high.
13. This is a foundry. In this foundry there were eight electric smelting furnaces, of exactly the same size and type as those in the foundry described under No. 7. There were also one large, one medium, and one light conveyor belt. In the roof were cranes and travelling crabs for charging the furnaces and conveying the castings. Armor plating 50 x 100 cms, 50 x 200 cms, and 100 x 300 cms was cast here. The strength of these platings varied between 50 and 250 mm. Cog wheels of various sizes were also produced, 1.20 - 1.30 m in diameter and 20 cm thick. Tracks for tanks and tractors were also made here. These measured 40 x 80 cms. The furnaces were tapped every two hours. The tapping was sufficient to charge all three belts with up to 60 moulds per belt. Scrap for smelting came from scrap heaps in front of the foundry.
14. This is a carpenter's shop. This shop produced coachwork (sic) for tractors. The timber came from sawmills outside the factory.
15. These are wooden sheds where large packing cases were seen. Some of these were open and contained new milling machines and borers from the U. S. New lathes up to 3 meters long were also seen here.
16. This is a store for the foundry. Spare parts for foundry equipment, including cranes, belts, etc., were stored here.
- 17 & 18. These were shops in process of being built. Building work began here in the latter half of 1945. By July 1948, however, only foundations had been finished.
19. This is the main administration building. This is a four-story building with a 30 m high concrete tower which is not used.
20. These are oil tanks. There are 12 - 14 of these. The diameter is about 5 meters. They are sunk in the ground and only 1 meter shows above the surface. One tank was seen in its entirety when it was being repaired, and it was 10 meters high, made of sheet-steel. There was an electric pump attached to each tank. The tanks were filled directly from railway tank cars. Twice a week a tanker train of 60 tank cars arrived at the works.

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